Application No.: 10/827,298 Art Unit: 3753

Attorney Docket No.: 24294.00

Confirmation No.: 2571

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Currently Amended) A pipe inlet/outlet device, comprising a tubular body having

a hollow, cylindrical neck portion throughout its length and defining a longitudinal axis, the

neck portion having an open first end with an outside diameter adapted for fitting snugly in

an inflow end of a pipe, and a rounded, non-circular elliptical rim integral with and

extending from the neck portion opposite the first end, the rim defining a mouth opening

into the neck portion, the rim curving outward and rearward from the mouth and forming a

skirt terminating in a lip, a recess being defined between the skirt and the neck portion.

Claims 2-4. (Cancelled)

Claim 5. (Original) The pipe inlet/outlet device of claim 1, wherein an inner surface of said

pipe inlet/outlet device includes boundary layer turbulators.

Claim 6. (Original) The pipe inlet/outlet device of claim 1, wherein an inner surface of said

pipe inlet/outlet device defines a fluid pathway, said pipe inlet/outlet device further

comprising a plurality of ribs extending into said fluid pathway for affecting fluid flow

through said pipe inlet/outlet device.

2

 Application No.: 10/827,298
 Attorney Docket No.: 24294.00

 Art Unit: 3753
 Confirmation No.: 2571

Claim 7. (*Original*) The pipe inlet/outlet device of claim 1, wherein an inner surface of said pipe inlet/outlet device defines a fluid pathway, said pipe inlet/outlet device having a plurality of grooves extending into said fluid pathway for affecting fluid flow through said pipe inlet/outlet device.

Claim 8. (*Original*) The pipe inlet/outlet device of claim 1, wherein the mouth of the tubular body has a trumpet bell shape.

Claim 9. (Cancelled)

Claim 10. (*Original*) The pipe inlet/outlet device according to claim 1, wherein said tubular body is made from plastic.

Claim 11. (*Original*) The pipe inlet/outlet device according to claim 1, wherein said tubular body is made from high density polyethylene.

Claim 12. (*Original*) The pipe inlet/outlet device according to claim 1, wherein said tubular body is made from metal.

Claim 13. (Original) The pipe inlet/outlet device according to claim 1, wherein the neck

portion of said tubular body is dimensioned and configured for friction fit into an inflow end

of a storm drainage pipe disposed in a tank.

Claim 14. (Currently Amended) A fluid handling system, comprising:

a retention tank;

a pipe extending from the retention tank, the pipe having an inflow end for receiving

the fluid from the tank;

a pipe inlet device having:

a tubular body having a hollow, cylindrical neck portion defining a longitudinal axis,

the neck portion having an open first end fitting snugly into the inflow end of the pipe, and a

rounded, non-circular elliptical rim integral with and extending from the neck portion

opposite the first end, the rim defining a mouth opening into the neck portion, the rim

curving outward and rearward from the mouth and forming a skirt terminating in a lip, an

annular recess being defined between the skirt and the neck portion.

Claims 15 and 16. (Cancelled)

Claim 17. (Original) The fluid handling system according to claim 14, wherein said tank is

selected from the group consisting of a manhole and a catch basin.

4

Application No.: 10/827,298
Art Unit: 3753
Attorney Docket No.: 24294.00
Confirmation No.: 2571

Claim 18. (Original) The fluid handling system according to claim 14, wherein said tubular

body is made from high density polyethylene.

Claim 19. (Currently Amended) A method of increasing a fluid handling capacity of a pipe,

the method comprising the steps of:

selecting a pipe inlet device comprising a neck portion having a neck portion

adapted for fitting snugly in an inflow end of the pipe and a rounded, non-circular elliptical

rim integral with and extending from the neck portion opposite the first end, the rim defining

a mouth opening into the neck portion, the rim curving outward and rearward from the

mouth and forming a skirt terminating in a lip, a recess being defined between the skirt and

the neck portion;

attaching the neck portion to the inflow end of the pipe;

whereby the rounded rim provides a consistent, smooth entry to efficiently guide the

fluid into the pipe thereby improving the rate of flow into the pipe.

Claim 20. (Original) The method of increasing fluid handling capacity according to claim

19, wherein said attaching step further comprises the steps of:

applying adhesive to an outside of the neck portion; and

inserting the neck portion into the inflow end of the pipe.

5